PROJECT TITLE : CIGARETTE DEVELOPMENT 4
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404 ALFA

Objective

To re-engineer the MERCEDES KS brand in order to obtain the following smoke yield :
DPM : $\leq$ 16 mg
SN : $\leq$ 1 mg

Summary

In December 1978, the blend of the MEK01 cigarette was changed and brought about an increase in smoke yield. In view of the current results, Marketing Department requested development work to be carried out on this brand.

Description of samples and results

Seven prototypes were produced with three filters (two of which were new) and a new blend.

Filter code		34.5553-D	34.5557-D
Total length	mm	120 (20)	120 (20)
Plug 1 : length	mm	7.5	7.5
Plug 2 : length	mm	12.5	12.5
Plug 1 : tow		2.5/46'000 Y	2.5/48'000 Y
Plug 2 : tow		4.0/45'000 Y	3.3/30'000 Y
RTD	mm WG	546	419
Total weight	mg/cig.	1410	1240
Additive : type		Silicagel	Silicagel
Additive : weight	mg/cig	60	60

Blend : IT0340401N02

Flue cured (%)	26.8
Burley (%)	10.2
Maryland (%)	4.0
Orient (%)	32.0
Added stems (%)	18.5
Reconstituted (%)	1.0
Expanded stems (%)	7.5

Prototype 7 P, produced with the current MEKNC filter and the ME001 tobacco blend, gave the following analytical results :

	7 P	C.I.R.
DPM (mg/cig.)	16.7	18.4
SN (mg/cig.)	0.99	1.02
Puff count	9.1	9.5

These analytical results will be confirmed before any definite conclusions are drawn.
Prototypes 4 P and 5 P were the most interesting products of the series.
Prototype 4 P was produced using the IT0340401N02 tobacco blend and the 34.5557-D filter.
Prototype 5 P was produced with the ME001 tobacco blend and the same filter as that used in prototype 4 P.
The analytical results obtained were as follows :

Prototype	4 P	5 P
DPM (mg/cig.)	14.1	14.3
SN (mg/cig.)	0.84	0.83
Puff count	9.0	8.8

Although DPM and SN figures were lower than those of prototype 7 P, these two cigarettes gave a good taste satisfaction.
They will be evaluated by Panel A.

301 HILTON 100'S

Objective

To extent the HILTON family with a 100 mm cigarette having the following smoke yield :
DPM : 9 mg
SN : 0.7 mg

Summary

The first prototype produced in this project, gave analytical results which were too high.
Therefore, two new prototypes were produced in PMG Munich using a more porous plug wrap (100 K) and Z4/100 and 6 M. 0.15 . 4.5 tipping papers.

Comments

The adaptation of the MERIT brand blend (reduction of analytical values), led to analytical results which were even lower than what was expected.
The FU-POV 40 L should be kept for provisional specifications.

380 GAMMA 100'S

Objective

To extend the GAMMA family with a 100 mm cigarette having the following smoke yield :
DPM : ∿ 7 mg
SN : ∿ 0.6 mg

Description of samples and results

Prototypes 1 P and 2 P of different weights were produced and taste evaluated. Panel A chose prototype 2 P, which has a total weight of 1150 mg/cig., to be presented to the Marketing Department.

376 FANGIO

Objective

To produce the VIRGINIA SLIMS LIGHTS brand in Europe.

Comments

Instructions were sent to PM Holland concerning the production of the first prototypes.
Flavours were ordered from PM USA.
The USA flavours will be injected into the first cigarettes in the laboratory.

389 EXIT

Objective

To reproduce the dilution system of the BARCLAY cigarette.

Description of samples and results

Filtrona filters having CPF type grooves were tested in the MLF and MLK brands.
Prototypes produced with MLK specifications and a micro-mechanically perforated tipping paper gave 55 % of US dilution and 8.6 mg of DPM. Before drawing conclusions on the CPF filter, prototypes should be tested on the human smoking simulator machine.

381 ETON

Objective

To evaluate the tobacco expanded in Onnens.

Description of samples and results

The FC tobacco expanded in Onnens was evaluated on the MLZ and FLI cigarettes and the Swiss tobacco on the FLL and BRT cigarettes.
As far as analytical results are concerned, no significant differences were detected as regards these evaluations.
However, it could be interesting to check the future production in order to see whether any differences are found.

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